



Customer-Focused Solutions

July 7, 2005

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. THOMAS KOSEL

SITE: 76 STATION 5105
1950 GUERNEVILLE ROAD
SANTA ROSA, CALIFORNIA

RE: ANNUAL MONITORING REPORT
JULY 2004 THROUGH JUNE 2005

Dear Mr. Kosel:

Please find enclosed our Annual Monitoring Report for 76 Station 5105, located at 1950 Guerneville Road, Santa Rosa, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Mr. Jan Wagoner, Delta Environmental, Inc. (2 copies)

Enclosures:
20-0400/5105R02.QMS



Customer-Focused Solutions

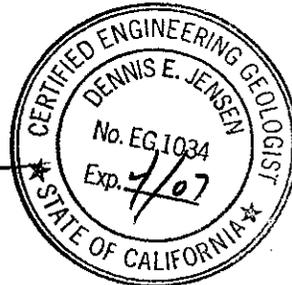
**ANNUAL MONITORING REPORT
JULY 2004 THROUGH JUNE 2005**

76 Station 5105
1950 Guerneville Road
Santa Rosa, California

Prepared For:

Mr. Thomas Kosel
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations
July 6, 2005

LIST OF ATTACHMENTS

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Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2004 through June 2005
76 Station 5105
1950 Guerneville Road
Santa Rosa, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**
Compiled by: **Christina Carrillo**

Date(s) of Gauging/Sampling Event: **06/07/05**

Sample Points

Groundwater wells: **2** onsite, **0** offsite Wells gauged: **2** Wells sampled: **2**
Purging method: **Diaphragm pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **9.39 feet** Maximum: **12.91 feet**
Average groundwater elevation (relative to available local datum): **111.09 feet**
Average change in groundwater elevation since previous event: **0.57 feet**
Interpreted groundwater gradient and flow direction:
 Current event: ***see notes below**
 Previous event: **n/a (05/12/04)**

Selected Laboratory Results

Wells with detected **Benzene**: **0** Wells above MCL (1.0 µg/l): **n/a**
 Maximum reported benzene concentration: **n/a**

Wells with **TPH-G** **0**
Wells with **MTBE** **2** Maximum: **570 µg/l (MW-1)**

Notes:

*=Only 2 sample points for this event.

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND <	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: $\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})$, where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.
9. Historical data has been validated for this report. Values presented in the following tables supercede those from previous reports.

REFERENCE

TRC began groundwater monitoring and sampling 76 Station 5105 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
 June 7, 2005
 76 Station 5105

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1														
(Screen Interval in feet: 12.0-30.0)														
06/07/05	122.73	12.91	0.00	109.82	0.44	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	660	570	
MW-3														
(Screen Interval in feet: 9.0-25.0)														
06/07/05	121.75	9.39	0.00	112.36	0.70	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	2.8	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
 May 1991 Through June 2005
 76 Station 5105

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 (Screen Interval in feet: 12.0-30.0)														
05/25/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/10/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/08/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/02/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/06/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/01/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/02/93	123.02	15.70	0.00	107.32	--	ND	--	ND	ND	ND	ND	--	--	
10/04/93	122.71	16.71	0.00	106.00	-1.32	ND	--	ND	ND	ND	ND	--	--	
01/27/94	122.73	13.39	0.00	109.34	3.34	--	--	--	--	--	--	--	--	
04/28/94	122.73	13.87	0.00	108.86	-0.48	130	--	ND	ND	ND	ND	--	--	
10/19/94	122.73	16.65	0.00	106.08	-2.78	560	--	ND	ND	ND	ND	--	--	
04/17/95	122.73	12.50	0.00	110.23	4.15	ND	--	ND	ND	ND	ND	--	--	
10/12/95	122.73	16.84	0.00	105.89	-4.34	ND	--	ND	ND	ND	ND	--	--	
04/08/96	122.73	11.97	0.00	110.76	4.87	ND	--	ND	ND	ND	ND	--	--	
10/29/96	122.73	15.16	0.00	107.57	-3.19	--	--	--	--	--	--	590	--	
04/25/97	122.73	12.82	0.00	109.91	2.34	--	--	--	--	--	--	270	--	
04/13/98	122.73	11.65	0.00	111.08	1.17	--	--	--	--	--	--	5.8	--	
08/31/98	122.73	14.68	0.00	108.05	-3.03	ND	--	ND	ND	ND	ND	448	451	
04/05/99	122.73	11.59	0.00	111.14	3.09	ND	--	ND	ND	ND	ND	390	360	
03/31/00	122.73	12.30	0.00	110.43	-0.71	ND	--	ND	ND	ND	ND	480	540	
04/06/01	122.73	12.44	0.00	110.29	-0.14	ND	--	ND	ND	ND	ND	635	880	
04/22/02	122.73	11.98	0.00	110.75	0.46	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	26	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
 May 1991 Through June 2005
 76 Station 5105

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 continued														
04/11/03	122.73	12.91	0.00	109.82	-0.93	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	7.2	
05/12/04	122.73	13.35	0.00	109.38	-0.44	750	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	1000	
06/07/05	122.73	12.91	0.00	109.82	0.44	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	660	570	
MW-2 (Screen Interval in feet: DNA)														
05/25/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/10/92	--	--	--	--	--	100	--	ND	ND	ND	ND	--	--	
04/08/92	--	--	--	--	--	140	--	ND	ND	ND	ND	460	--	
07/02/92	--	--	--	--	--	120	--	ND	ND	ND	ND	240	--	
10/06/92	--	--	--	--	--	59	--	ND	ND	ND	ND	100	--	
01/06/93	--	--	--	--	--	120	--	ND	ND	ND	ND	240	--	
04/01/93	--	--	--	--	--	150	--	ND	ND	ND	ND	270	--	
07/02/93	121.89	13.76	0.00	108.13	--	82	--	ND	ND	ND	ND	200	--	
10/04/93	121.47	14.75	0.00	106.72	-1.41	ND	--	ND	ND	ND	ND	81	--	
01/27/94	121.49	12.53	0.00	108.96	2.24	--	--	--	--	--	--	--	--	
04/28/94	121.49	12.54	0.00	108.95	-0.01	120	--	ND	ND	ND	0.62	290	--	
10/19/94	121.49	15.10	0.00	106.39	-2.56	170	--	0.79	ND	0.53	ND	98	--	
04/17/95	121.49	10.92	0.00	110.57	4.18	ND	--	ND	ND	ND	ND	56	--	
MW-3 (Screen Interval in feet: 9.0-25.0)														
05/25/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/10/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/08/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/02/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
 May 1991 Through June 2005
 76 Station 5105

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued														
10/06/92	--	--	--	--	--	ND	--	1.4	ND	ND	ND	--	--	
01/06/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/01/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/02/93	121.98	11.98	0.00	110.00	--	ND	--	ND	ND	ND	ND	--	--	
10/04/93	121.73	13.01	0.00	108.72	-1.28	ND	--	ND	ND	ND	ND	--	--	
01/27/94	121.75	10.86	0.00	110.89	2.17	--	--	--	--	--	--	--	--	
04/28/94	121.75	10.56	0.00	111.19	0.30	ND	--	ND	ND	ND	ND	--	--	
10/19/94	121.75	14.73	0.00	107.02	-4.17	--	--	--	--	--	--	--	--	
04/17/95	121.75	8.40	0.00	113.35	6.33	ND	--	ND	ND	ND	ND	--	--	
10/12/95	121.75	14.61	0.00	107.14	-6.21	--	--	--	--	--	--	--	--	
04/08/96	121.75	8.38	0.00	113.37	6.23	ND	--	ND	ND	ND	ND	--	--	
10/29/96	121.75	12.92	0.00	108.83	-4.54	--	--	--	--	--	--	--	--	
04/25/97	121.75	9.64	0.00	112.11	3.28	--	--	--	--	--	--	ND	--	
04/13/98	121.75	8.38	0.00	113.37	1.26	--	--	--	--	--	--	14	--	
08/31/98	121.75	11.96	0.00	109.79	-3.58	ND	--	ND	ND	ND	ND	2.73	2.66	
04/05/99	121.75	8.38	0.00	113.37	3.58	ND	--	ND	ND	ND	ND	7.6	5.2	
03/31/00	121.75	9.00	0.00	112.75	-0.62	ND	--	ND	ND	ND	ND	8.9	8.5	
04/06/01	121.75	9.23	0.00	112.52	-0.23	ND	--	ND	ND	ND	ND	7.75	7.8	
04/22/02	121.75	8.74	0.00	113.01	0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.1	7.6	
04/11/03	121.75	9.61	0.00	112.14	-0.87	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.0	5.1	
05/12/04	121.75	10.09	0.00	111.66	-0.48	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	3.9	
06/07/05	121.75	9.39	0.00	112.36	0.70	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	2.8	
MW-4 (Screen Interval in feet: DNA)														
04/08/92	--	--	--	--	--	110	--	ND	ND	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
 May 1991 Through June 2005
 76 Station 5105

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-4 continued														
07/02/92	--	--	--	--	--	240	--	ND	ND	ND	ND	930	--	
10/06/92	--	--	--	--	--	130	--	ND	ND	ND	ND	320	--	
01/06/93	--	--	--	--	--	120	--	ND	ND	ND	ND	400	--	
04/01/93	--	--	--	--	--	210	--	ND	ND	ND	2.8	360	--	
07/02/93	121.77	13.52	0.00	108.25	--	210	--	ND	ND	ND	ND	350	--	
10/04/93	121.49	14.51	0.00	106.98	-1.27	ND	--	ND	ND	ND	ND	25	--	
01/27/94	121.51	12.03	0.00	109.48	2.50	--	--	--	--	--	--	--	--	
04/28/94	121.51	10.92	0.00	110.59	1.11	78	--	ND	ND	ND	ND	180	--	
10/19/94	121.51	13.78	0.00	107.73	-2.86	ND	--	ND	ND	ND	ND	260	--	
04/17/95	121.51	12.15	0.00	109.36	1.63	ND	--	ND	ND	ND	ND	90	--	
10/12/95	121.51	14.00	0.00	107.51	-1.85	ND	--	ND	ND	ND	ND	29	--	
04/08/96	121.51	10.57	0.00	110.94	3.43	ND	--	ND	ND	ND	ND	ND	--	
MW-5 (Screen Interval in feet: DNA)														
01/27/94	122.07	13.73	0.00	108.34	--	ND	--	ND	ND	ND	ND	--	--	
04/28/94	122.07	14.25	0.00	107.82	-0.52	ND	--	ND	ND	ND	ND	--	--	
10/19/94	122.07	16.15	0.00	105.92	-1.90	ND	--	ND	ND	ND	ND	--	--	
04/17/95	122.07	13.21	0.00	108.86	2.94	ND	--	ND	ND	ND	ND	--	--	
10/12/95	122.07	16.38	0.00	105.69	-3.17	ND	--	ND	ND	ND	ND	--	--	
04/08/96	122.07	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D (µg/l)	1,4-Dichloro- benzene (µg/l)	EDC (µg/l)	1,1-Dichloro- ethane (µg/l)	1,2-Dichloro- benzene (µg/l)	EDB (µg/l)	Total Lead (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Nitrite (µg/l)	Zinc (mg/l)	Ethanol 8260B (µg/l)	Nickel (mg/l)	
MW-1																
05/25/91	ND	ND	ND	ND	ND	--	--	--	--	--	--	12	--	--	--	--
10/07/91	ND	ND	ND	1.9	1.2	--	0.027	--	--	--	--	1800	0.12	--	0.31	--
01/10/92	ND	ND	ND	ND	ND	--	0.0089	--	--	--	--	--	0.11	--	ND	--
04/08/92	ND	ND	ND	ND	ND	--	0.013	--	--	--	--	20000	0.02	--	ND	--
07/02/92	ND	0.95	0.56	ND	1.8	--	0.017	--	--	--	--	--	0.15	--	0.38	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	1200	--	--	ND	--
01/06/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
04/01/93	--	0.77	ND	ND	2	--	--	--	--	--	--	19000	--	--	0.13	--
07/02/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
10/04/93	--	2.1	ND	ND	4.6	--	--	--	--	--	--	390	--	--	ND	--
04/28/94	--	0.64	0.66	0.5	3.6	--	--	--	--	--	--	8600	--	--	0.12	--
10/19/94	--	0.57	1.3	0.72	2.3	--	--	--	--	--	--	3300	--	--	0.043	--
04/17/95	--	ND	ND	0.58	1.1	--	--	--	--	--	--	12000	--	--	0.027	--
10/12/95	--	ND	ND	ND	ND	--	--	--	--	--	--	11000	--	--	0.051	--
04/08/96	--	ND	ND	0.98	ND	--	--	--	--	--	--	12000	--	--	ND	--
10/29/96	--	ND	ND	ND	4.4	--	--	--	--	--	--	2100	--	--	--	--
08/31/98	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	ND	--	--
04/05/99	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	ND	--	--
03/31/00	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	ND	--	--
04/06/01	--	--	ND	--	--	ND	--	ND	83	ND	ND	--	--	ND	--	--
04/22/02	--	--	ND<2.0	--	--	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500	--	--
04/11/03	--	--	ND<2.0	--	--	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500	--	--
05/12/04	--	--	ND<5.0	--	--	ND<5.0	--	ND<5.0	ND<50	ND<10	ND<5.0	--	--	ND<500	--	--
06/07/05	--	--	ND<2.5	--	--	ND<2.5	--	ND<2.5	94	ND<2.5	ND<2.5	--	--	ND<250	--	--
MW-2																
05/25/91	--	ND	ND	ND	ND	--	--	--	--	--	--	3500	--	--	--	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D (µg/l)	1,4-Dichloro-benzene (µg/l)	EDC (µg/l)	1,1-Dichloro-ethane (µg/l)	1,2-Dichloro-benzene (µg/l)	EDB (µg/l)	Total Lead (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Nitrite (µg/l)	Zinc (mg/l)	Ethanol 8260B (µg/l)	Nickel (mg/l)
MW-2 continued															
10/07/91	ND	ND	ND	ND	ND	--	--	--	--	--	--	510	--	--	--
01/10/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
04/08/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--	--	--
07/02/92	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	35000	--	--	--
04/01/93	--	--	--	--	--	--	--	--	--	--	--	2900	--	--	--
10/04/93	--	--	--	--	--	--	--	--	--	--	--	5500	--	--	--
04/28/94	--	--	--	--	--	--	--	--	--	--	--	2500	--	--	--
10/19/94	--	--	--	--	--	--	--	--	--	--	--	3600	--	--	--
04/17/95	--	--	--	--	--	--	--	--	--	--	--	4900	--	--	--
MW-3															
05/25/91	--	ND	ND	ND	ND	--	--	--	--	--	--	ND	--	--	--
10/07/91	ND	ND	ND	ND	ND	--	--	--	--	--	--	18000	--	--	--
01/10/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
04/08/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	24000	--	--	--
07/02/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	26000	--	--	--
04/01/93	--	--	--	--	--	--	--	--	--	--	--	22000	--	--	--
10/04/93	--	--	--	--	--	--	--	--	--	--	--	63000	--	--	--
04/28/94	--	--	--	--	--	--	--	--	--	--	--	20000	--	--	--
04/17/95	--	--	--	--	--	--	--	--	--	--	--	23000	--	--	--
04/08/96	--	--	--	--	--	--	--	--	--	--	--	21000	--	--	--
08/31/98	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	ND	--
04/05/99	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	ND	--
03/31/00	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	ND	--
04/06/01	--	--	ND	--	--	ND	--	ND	ND	ND	ND	--	--	ND	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D (µg/l)	1,4-Dichloro- benzene (µg/l)	EDC (µg/l)	1,1-Dichloro- ethane (µg/l)	1,2-Dichloro- benzene (µg/l)	EDB (µg/l)	Total Lead (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Nitrite (µg/l)	Zinc (mg/l)	Ethanol 8260B (µg/l)	Nickel (mg/l)
MW-3 continued															
04/22/02	--	--	ND<2.0	--	--	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500	--
04/11/03	--	--	ND<2.0	--	--	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--	--
05/12/04	--	--	ND<0.50	--	--	ND<0.50	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	--	ND<50	--
06/07/05	--	--	ND<0.50	--	--	ND<0.50	--	ND<0.50	ND<5.0	ND<0.50	ND<0.50	--	--	ND<50	--
MW-4															
04/08/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	5700	--	--	--
07/02/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	4300	--	--	--
04/01/93	--	--	--	--	--	--	--	--	--	--	--	6800	--	--	--
10/04/93	--	--	--	--	--	--	--	--	--	--	--	2300	--	--	--
04/28/94	--	--	--	--	--	--	--	--	--	--	--	3600	--	--	--
10/19/94	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--
04/17/95	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--
10/12/95	--	--	--	--	--	--	--	--	--	--	--	660	--	--	--
04/08/96	--	--	--	--	--	--	--	--	--	--	--	770	--	--	--
MW-5															
01/27/94	ND	1.2	ND	1.5	1.4	--	--	--	--	--	--	23000	--	--	--
04/28/94	ND	ND	ND	1.6	ND	--	--	--	--	--	--	29000	--	--	--
10/19/94	ND	ND	ND	1.6	ND	--	--	--	--	--	--	26000	--	--	--
04/17/95	ND	0.92	ND	1.1	1.1	--	--	--	--	--	--	24000	--	--	--
10/12/95	ND	ND	ND	0.53	ND	--	--	--	--	--	--	26000	--	--	--

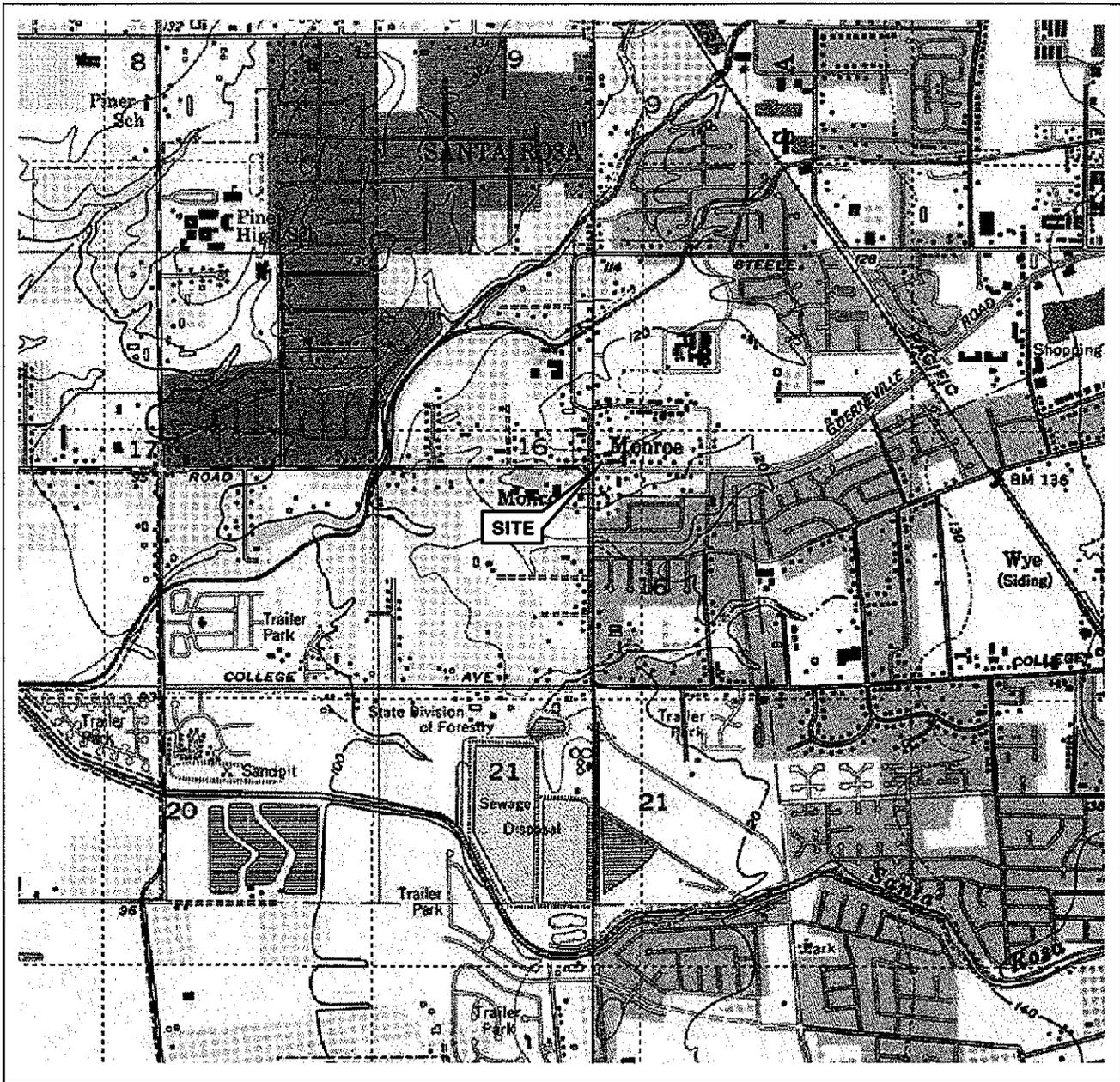
Table 3 b
 ADDITIONAL ANALYTICAL RESULTS
 76 Station 5105

Date Sampled	Cadmium (mg/l)	Chromium (mg/l)	TOG (mg/l)
MW-1			
05/25/91	--	--	ND
10/07/91	ND	0.19	ND
01/10/92	ND	0.0053	ND
04/08/92	ND	ND	ND
07/02/92	ND	0.13	--
10/06/92	--	ND	--
01/06/93	--	ND	--
04/01/93	--	0.045	--
07/02/93	--	0.011	--
10/04/93	--	ND	--
04/28/94	--	0.067	--
10/19/94	--	0.016	--
04/17/95	--	0.011	--
10/12/95	--	0.029	--
04/08/96	--	ND	--
MW-5			
01/27/94	--	--	ND
04/28/94	--	--	ND
10/19/94	--	--	ND
04/17/95	--	--	ND
10/12/95	--	--	ND

Table 4
 ADDITIONAL ANALYTICAL RESULTS
 76 Station 5105

Date Sampled	Barium (mg/l)	Mercury (mg/l)
MW-5		
01/27/94	0.0035	ND
04/28/94	0.46	ND
10/19/94	0.094	0.00044
04/17/95	0.24	ND
10/12/95	0.17	ND

FIGURES



0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000



QUADRANGLE
LOCATION



VICINITY MAP

76 Station 5105
1950 Guerneville Road
Santa Rosa, California

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Santa Rosa Quadrangle

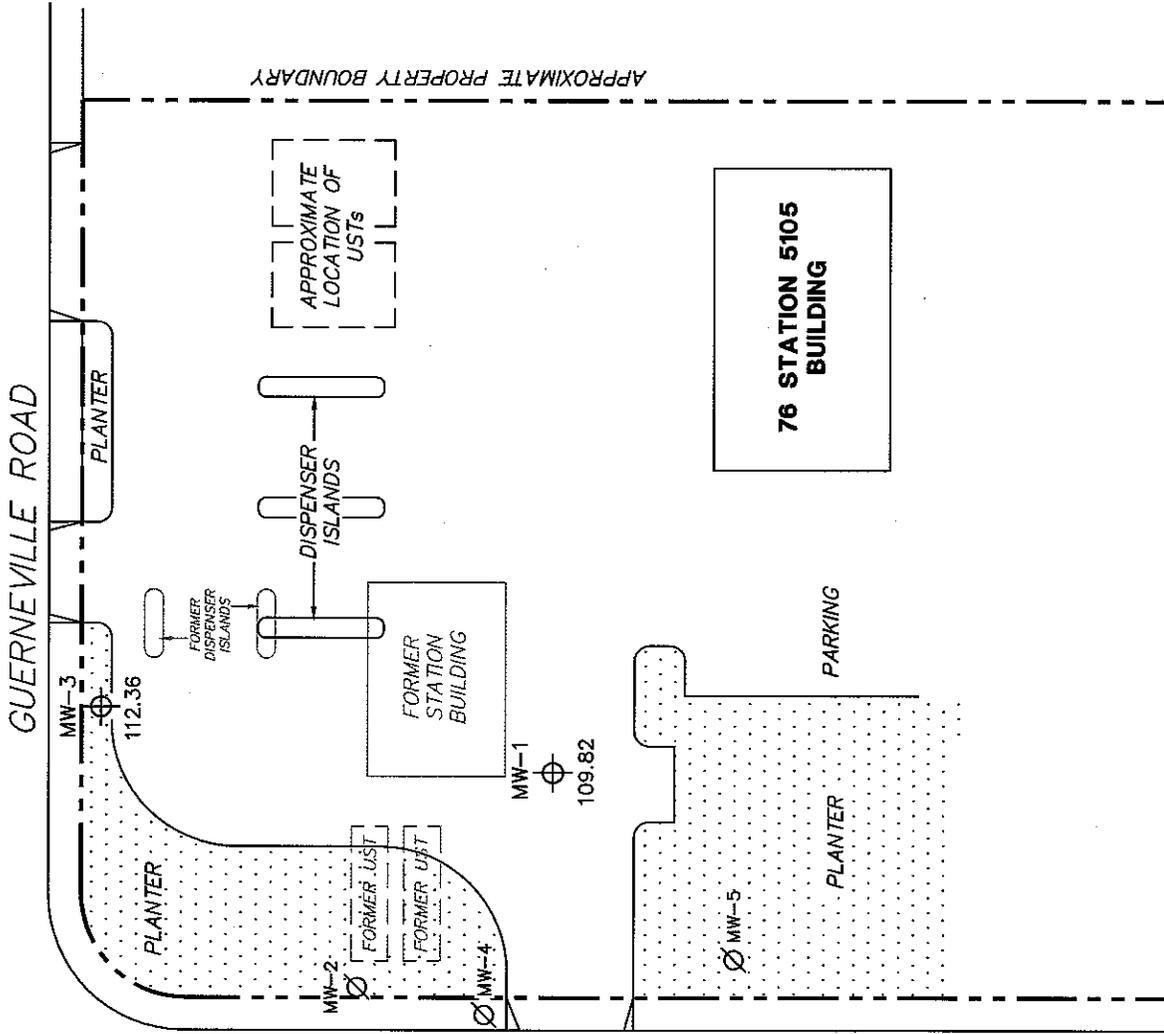
TRC

FIGURE 1

GUERNEVILLE ROAD

MARLOW ROAD

APPROXIMATE PROPERTY BOUNDARY



LEGEND

MW-3 ⊕ Monitoring Well with Groundwater Elevation (feet)

MW-5 ∅ Destroyed Monitoring Well

NOTES:

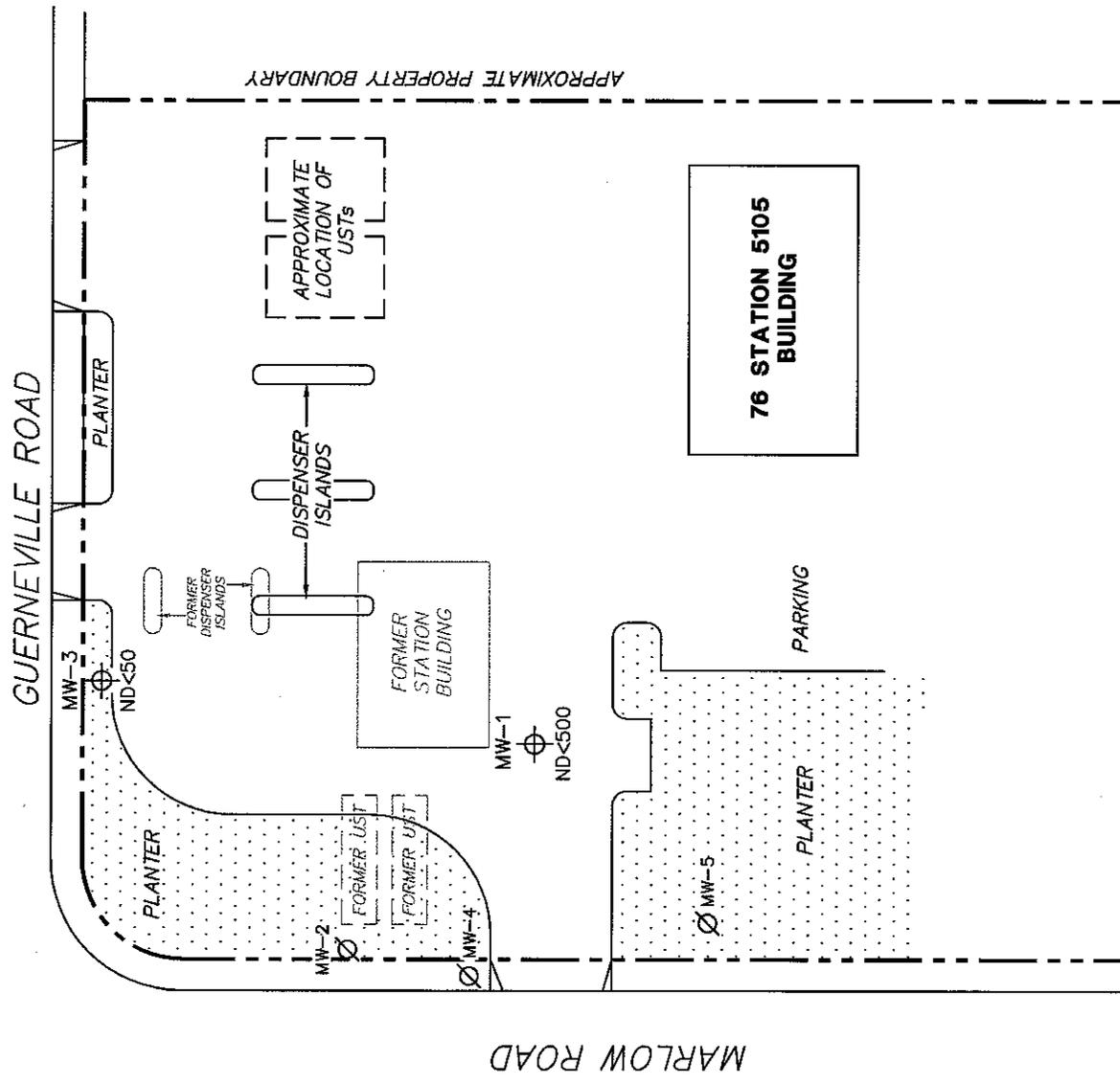
Elevations are in feet above mean sea level.
UST = underground storage tank.

**GROUNDWATER ELEVATION
MAP
June 7, 2005**

76 Station 5105
1950 Guerneville Road
Guerneville, California

FIGURE 2





LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase TPH-G Concentration (µg/l)

MW-5 ∅ Destroyed Monitoring Well

NOTES:

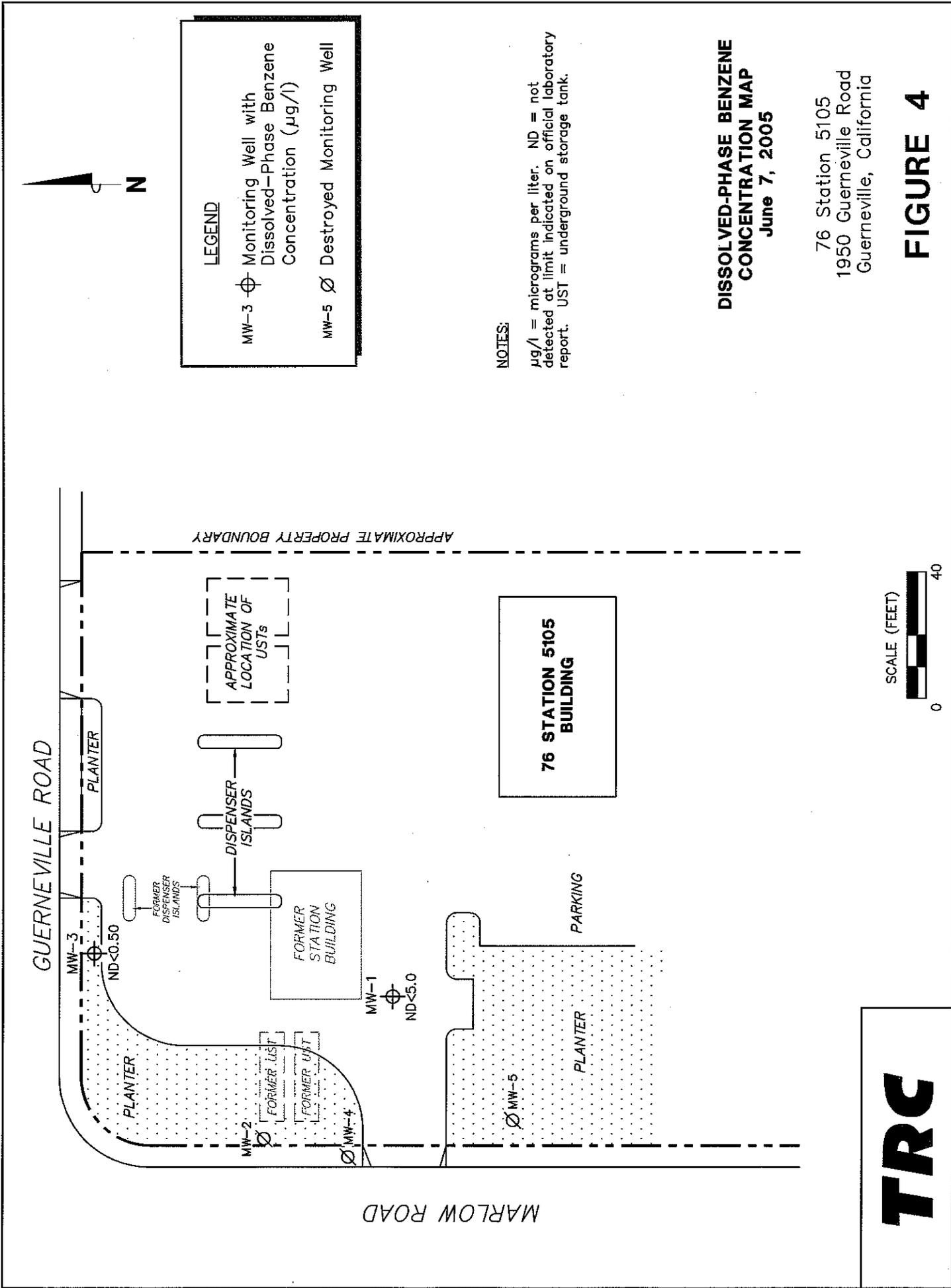
TPH-G = total petroleum hydrocarbons as gasoline. µg/l = micrograms per liter.
 ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8015.

DISSOLVED-PHASE TPH-G CONCENTRATION MAP
June 7, 2005

76 Station 5105
 1950 Guerneville Road
 Guerneville, California

FIGURE 3





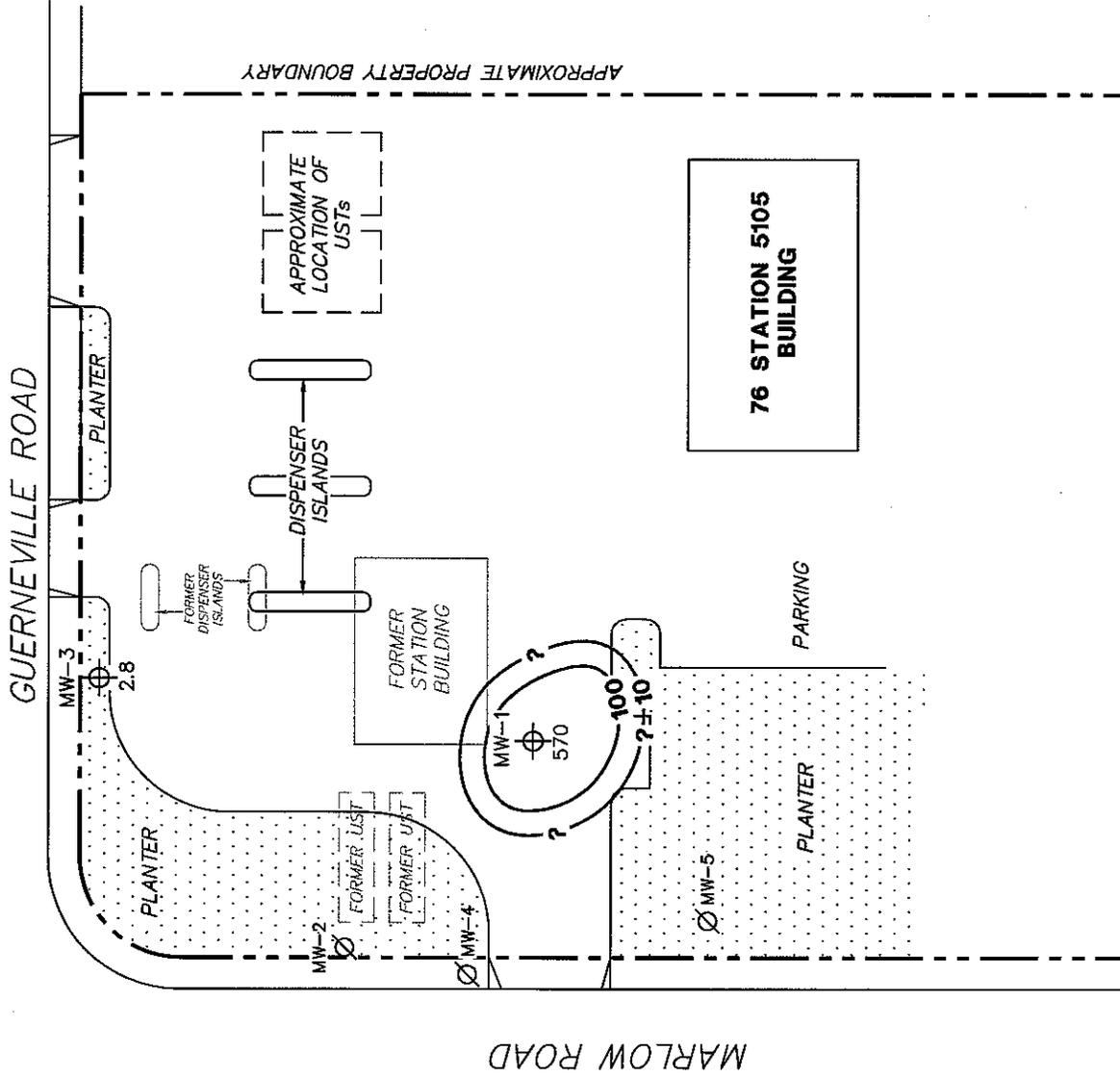
**DISSOLVED-PHASE BENZENE
CONCENTRATION MAP**
June 7, 2005

76 Station 5105
1950 Guerneville Road
Guerneville, California

FIGURE 4



TRC



LEGEND

- MW-3 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- MW-5 ∅ Destroyed Monitoring Well
- 100--- Dissolved-Phase MTBE Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. UST = underground storage tank. Results obtained using EPA Method 8260B.

**DISSOLVED-PHASE MTBE
CONCENTRATION MAP**
June 7, 2005

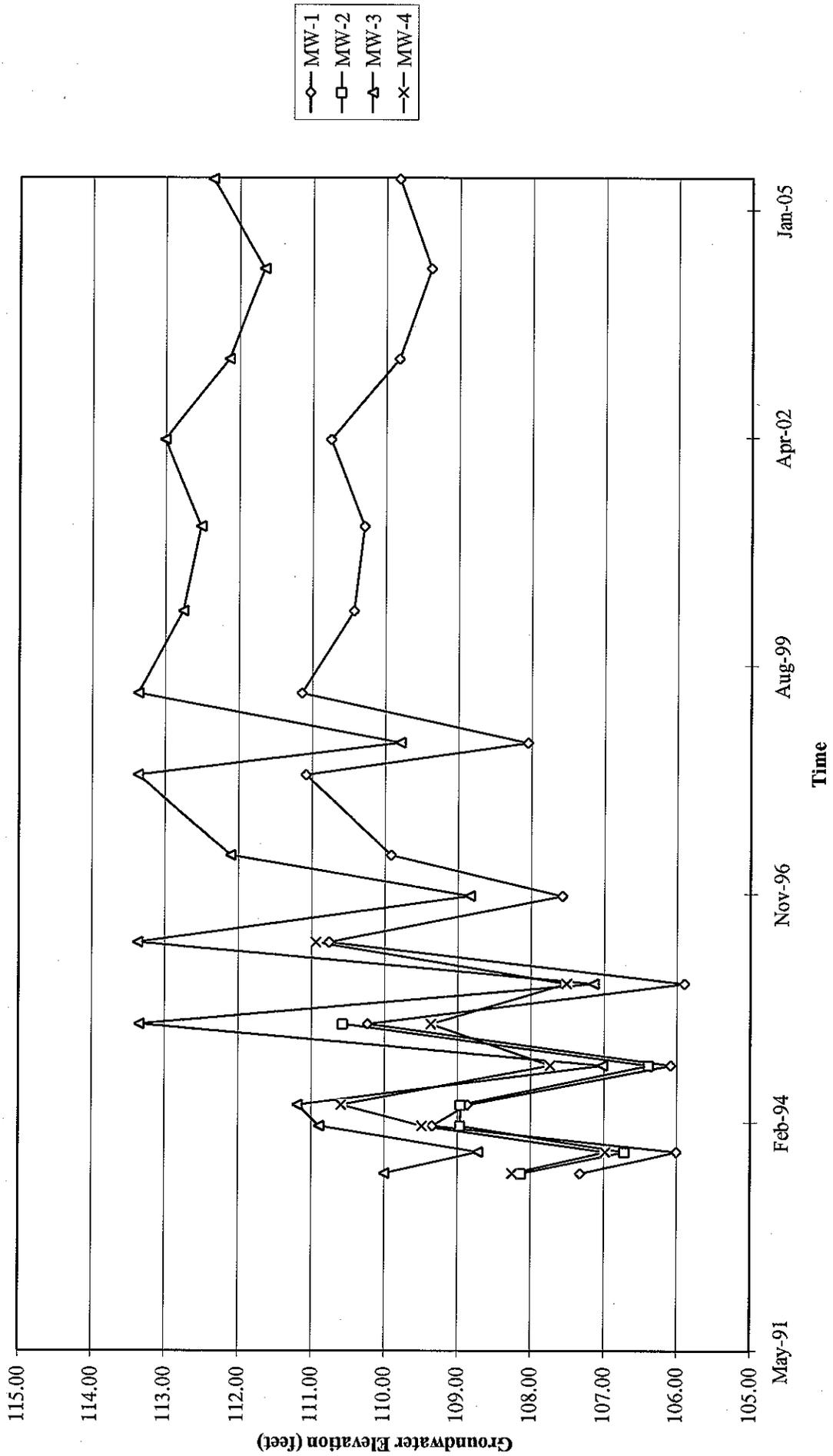
76 Station 5105
1950 Guerneville Road
Guerneville, California

FIGURE 5

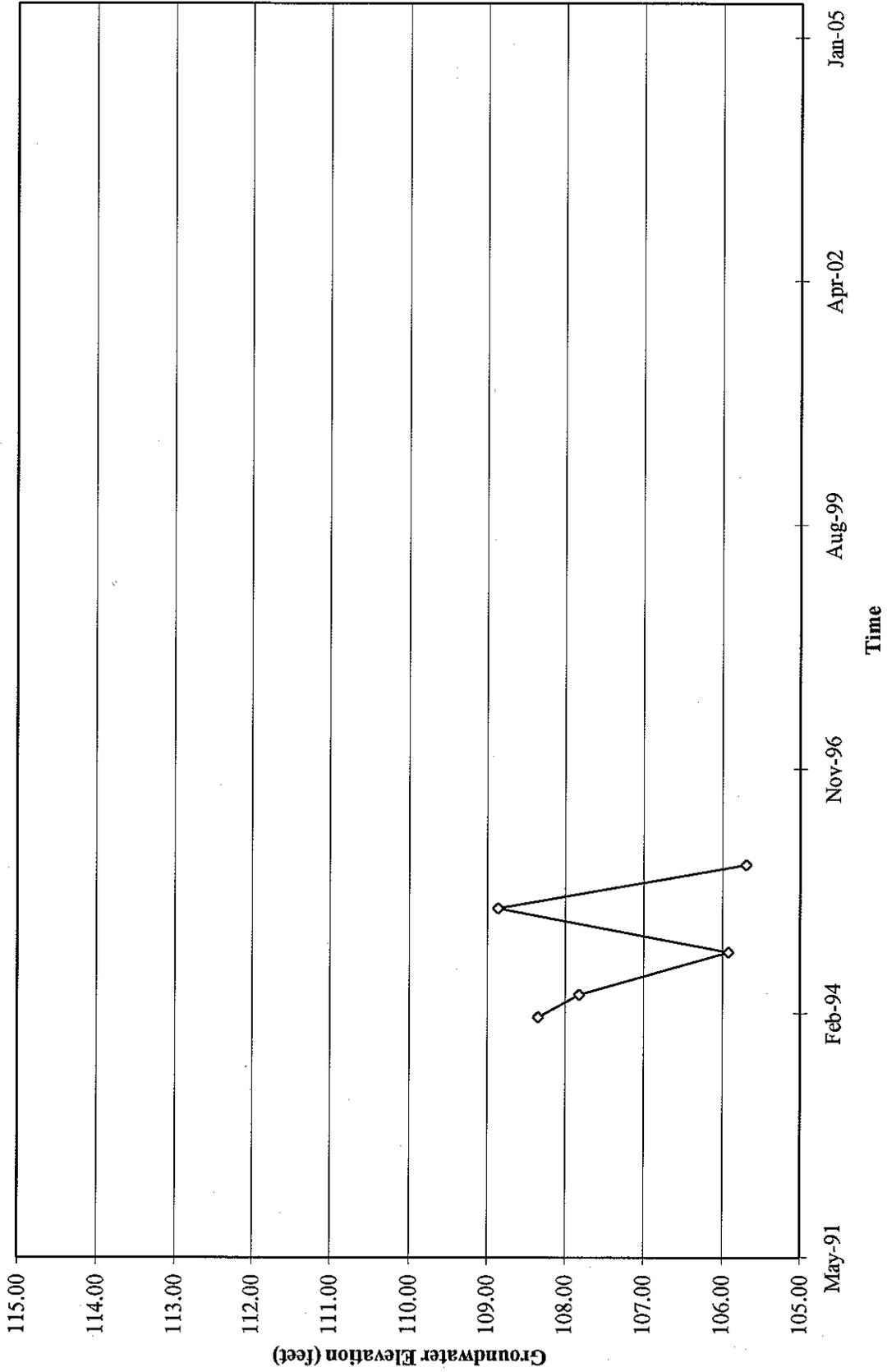


GRAPHS

Groundwater Elevations vs. Time
76 Station 5105

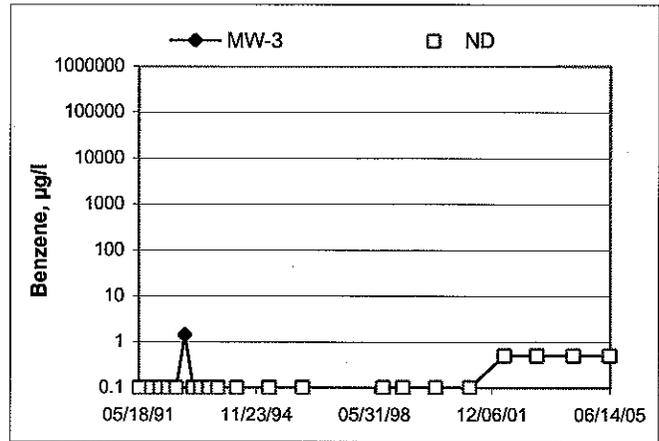
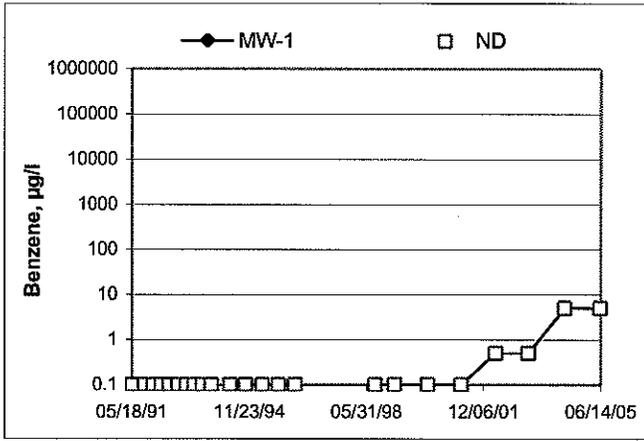


Groundwater Elevations vs. Time
76 Station 5105



—◇— MW-5

Benzene Concentrations vs Time 76 Station 5105



GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage, or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurement are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, and the samplers initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging, and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least-affected well and ending with the well that has highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected well to the most-affected well.

Decontamination

In order to reduce the possibility of cross-contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

GROUNDWATER SAMPLING FIELD NOTES

Technician: Alex, Melissa

Site: S105

Project No.: 41050001

Date: 06-07-05

Well No.: MW-3

Purge Method: Dia

Depth to Water (feet): 9.39

Depth to Product (feet): 0

Total Depth (feet): 24.27

LPH & Water Recovered (gallons): 0

Water Column (feet): 14.80

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 12.36

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. $\text{\textcircled{C}}$)	pH	Turbidity	D.O.
0933			3	501	13.6	6.40		
			6	513	14.5	6.42		
	0938		9	509	14.5	6.45		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
11.81			9		1005			
Comments:								

Well No.: MW-1

Purge Method: Dia

Depth to Water (feet): 12.91

Depth to Product (feet): 0

Total Depth (feet): 28.18

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.27

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 15.96

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. $\text{\textcircled{C}}$)	pH	Turbidity	D.O.
0945			3	811	14.9	6.49		
			6	970	15.7	6.56		
	0950		9	917	15.4	6.55		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
13.21			9		1010			
Comments:								

TRC Alton Geoscience- Irvine

June 27, 2005

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips # 5105

Site: 1950 Guerneville Rd, Santa Rosa

Attached is our report for your samples received on 06/07/2005 18:30

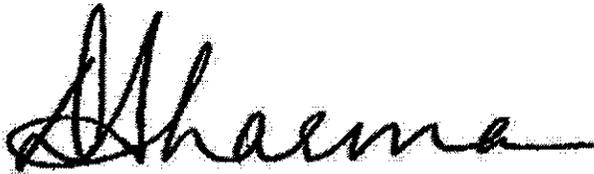
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/22/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Compounds by 8015M/8021

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	06/07/2005 10:05	Water	1
MW-1	06/07/2005 10:10	Water	2

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/22/2005 09:24

Gas/BTEX Compounds by 8015M/8021

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	MW-3	Lab ID:	2005-06-0199 - 1
Sampled:	06/07/2005 10:05	Extracted:	6/20/2005 15:50
Matrix:	Water	QC Batch#:	2005/06/20-1A.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	06/20/2005 15:50	
Benzene	ND	0.50	ug/L	1.00	06/20/2005 15:50	
Toluene	ND	0.50	ug/L	1.00	06/20/2005 15:50	
Ethyl benzene	ND	0.50	ug/L	1.00	06/20/2005 15:50	
Xylene(s)	ND	0.50	ug/L	1.00	06/20/2005 15:50	
MTBE	ND	5.0	ug/L	1.00	06/20/2005 15:50	
Surrogate(s)						
Trifluorotoluene	96.7	58-124	%	1.00	06/20/2005 15:50	
4-Bromofluorobenzene-FID	65.4	50-150	%	1.00	06/20/2005 15:50	

Gas/BTEX Compounds by 8015M/8021

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	MW-1	Lab ID:	2005-06-0199 - 2
Sampled:	06/07/2005 10:10	Extracted:	6/21/2005 10:25
Matrix:	Water	QC Batch#:	2005/06/21-1A.05
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	500	ug/L	10.00	06/21/2005 10:25	
Benzene	ND	5.0	ug/L	10.00	06/21/2005 10:25	
Toluene	ND	5.0	ug/L	10.00	06/21/2005 10:25	
Ethyl benzene	ND	5.0	ug/L	10.00	06/21/2005 10:25	
Xylene(s)	ND	5.0	ug/L	10.00	06/21/2005 10:25	
MTBE	660	50	ug/L	10.00	06/21/2005 10:25	
Surrogate(s)						
Trifluorotoluene	113.2	58-124	%	1.00	06/21/2005 10:25	
4-Bromofluorobenzene-FID	75.8	50-150	%	1.00	06/21/2005 10:25	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/22/2005 09:24

Gas/BTEX Compounds by 8015M/8021

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s): 5030			Test(s): 8015M
5030			8021B
Method Blank	Water		QC Batch # 2005/06/20-1A.05
MB: 2005/06/20-1A.05-004			Date Extracted: 06/20/2005 11:22

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	06/20/2005 11:22	
Benzene	ND	0.5	ug/L	06/20/2005 11:22	
Toluene	ND	0.5	ug/L	06/20/2005 11:22	
Ethyl benzene	ND	0.5	ug/L	06/20/2005 11:22	
Xylene(s)	ND	0.5	ug/L	06/20/2005 11:22	
MTBE	ND	5.0	ug/L	06/20/2005 11:22	
Surrogates(s)					
Trifluorotoluene	107.2	58-124	%	06/20/2005 11:22	
4-Bromofluorobenzene-FID	77.4	50-150	%	06/20/2005 11:22	

Gas/BTEX Compounds by 8015M/8021

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report		
Prep(s): 5030		Test(s): 8015M
5030		8021B
Method Blank	Water	QC Batch # 2005/06/21-1A.05
MB: 2005/06/21-1A.05-003		Date Extracted: 06/21/2005 08:43

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	06/21/2005 08:43	
Benzene	ND	0.5	ug/L	06/21/2005 08:43	
Toluene	ND	0.5	ug/L	06/21/2005 08:43	
Ethyl benzene	ND	0.5	ug/L	06/21/2005 08:43	
Xylene(s)	ND	0.5	ug/L	06/21/2005 08:43	
MTBE	ND	5.0	ug/L	06/21/2005 08:43	
Surrogates(s)					
Trifluorotoluene	109.4	58-124	%	06/21/2005 08:43	
4-Bromofluorobenzene-FID	73.0	50-150	%	06/21/2005 08:43	

Gas/BTEX Compounds by 8015M/8021

TRC Alton Geoscience- Irvine

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030					Test(s): 8021B				
Laboratory Control Spike			Water			QC Batch # 2005/06/20-1A.05			
LCS	2005/06/20-1A.05-005		Extracted: 06/20/2005			Analyzed: 06/20/2005 11:48			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	54.6		50	109.2			77-123	20		
Toluene	51.6		50	103.2			78-122	20		
Ethyl benzene	51.1		50	102.2			70-130	20		
Xylene(s)	152		150	101.3			75-125	20		
Surrogates(s)										
Trifluorotoluene	516		500	103.2			58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 41050001FA20
Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030					Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2005/06/20-1A.05			
LCS		2005/06/20-1A.05-006		Extracted: 06/20/2005		Analyzed: 06/20/2005 12:13			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
GRO (C6-C12)	258		250	103.2			75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	386		500	77.2			50-150			

Gas/BTEX Compounds by 8015M/8021

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Project: 41050001FA20
Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030					Test(s): 8021B				
Laboratory Control Spike			Water			QC Batch # 2005/06/21-1A.05			
LCS		2005/06/21-1A.05-004		Extracted: 06/21/2005		Analyzed: 06/21/2005 09:08			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	55.3		50	110.6			77-123	20		
Toluene	54.7		50	109.4			78-122	20		
Ethyl benzene	51.8		50	103.6			70-130	20		
Xylene(s)	155		150	103.3			75-125	20		
Surrogates(s)										
Trifluorotoluene	573		500	114.6			58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030					Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2005/06/21-1A.05			
LCS	2005/06/21-1A.05-005		Extracted: 06/21/2005			Analyzed: 06/21/2005 09:34			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
GRO (C6-C12)	249		250	99.6			75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	363		500	72.6			50-150			

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06/22/2005 09:24

Gas/BTEX Compounds by 8015M/8021

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s): 5030			Test(s): 8015M
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/06/20-1A.05	
MS/MSD			Lab ID: 2005-06-0306 - 003
MS: 2005/06/20-1A.05-016	Extracted: 06/20/2005	Analyzed:	06/20/2005 18:49
		Dilution:	1.00
MSD: 2005/06/20-1A.05-017	Extracted: 06/20/2005	Analyzed:	06/20/2005 19:14
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
GRO (C6-C12)	241	215	ND	250	96.4	86.0	11.4	65-135	20		
<i>Surrogate(s)</i>											
4-Bromofluorobenzene-FID	339	336		500	67.8	67.2		50-150			

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s):	5030	Test(s):	8021B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/06/20-1A.05	
MS/MSD		Lab ID:	2005-06-0306 - 005
MS: 2005/06/20-1A.05-019	Extracted: 06/20/2005	Analyzed:	06/20/2005 20:05
		Dilution:	1.00
MSD: 2005/06/20-1A.05-020	Extracted: 06/20/2005	Analyzed:	06/20/2005 20:30
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	53.6	48.9	ND	50	107.2	97.8	9.2	65-135	20		
Toluene	51.0	46.8	ND	50	102.0	93.6	8.6	65-135	20		
Ethyl benzene	49.3	45.3	ND	50	98.6	90.6	8.5	65-135	20		
Xylene(s)	146	137	ND	150	97.3	91.3	6.4	65-135	20		
Surrogate(s)											
Trifluorotoluene	475	479	ND	500	95.0	95.8		58-124			

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s):	5030	Test(s):	8021B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/06/21-1A.05
MW-1 >> MS		Lab ID:	2005-06-0199 - 002
MS: 2005/06/21-1A.05-018		Extracted: 06/21/2005	Analyzed: 06/21/2005 18:23
			Dilution: 10.00
MSD: 2005/06/21-1A.05-019		Extracted: 06/21/2005	Analyzed: 06/21/2005 18:48
			Dilution: 10.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	523	536	ND	500	104.6	107.2	2.5	65-135	20		
Toluene	506	519	ND	500	101.2	103.8	2.5	65-135	20		
Ethyl benzene	489	500	ND	500	97.8	100.0	2.2	65-135	20		
Xylene(s)	150	153	ND	150	100.0	102.0	2.0	65-135	20		
Surrogate(s)											
Trifluorotoluene	417	419		500	83.4	83.8		58-124			

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Project: 41050001FA20
Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s):	5030		Test(s): 8015M
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/06/21-1A.05
MW-1 >> MS			Lab ID: 2005-06-0199 - 002
MS: 2005/06/21-1A.05-020		Extracted: 06/21/2005	Analyzed: 06/21/2005 19:13
			Dilution: 10.00
MSD: 2005/06/21-1A.05-021		Extracted: 06/21/2005	Analyzed: 06/21/2005 19:39
			Dilution: 10.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
GRO (C6-C12)	2900	2710	ND	2500	116.0	108.4	6.8	65-135	20		
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	325	299		500	65.0	59.8		50-150			

Gas/BTEX Compounds by 8015M/8021

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

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06/22/2005 09:24

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

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Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	06/07/2005 10:05	Water	1
MW-1	06/07/2005 10:10	Water	2

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06/25/2005 13:13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

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Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2005-06-0199 - 1
Sampled:	06/07/2005 10:05	Extracted:	6/18/2005 14:27 6/18/2005 16:18 6/20/2005 00:09
Matrix:	Water	QC Batch#:	2005/06/18-1A.64 2005/06/18-1A.66 2005/06/19-2A.66
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/18/2005 14:27	
Methyl tert-butyl ether (MTBE)	2.8	0.50	ug/L	1.00	06/20/2005 00:09	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	06/18/2005 16:18	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	06/18/2005 14:27	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	06/18/2005 14:27	
1,2-DCA	ND	0.50	ug/L	1.00	06/18/2005 14:27	
EDB	ND	0.50	ug/L	1.00	06/18/2005 14:27	
Ethanol	ND	50	ug/L	1.00	06/18/2005 14:27	
Surrogate(s)						
1,2-Dichloroethane-d4	106.7	73-130	%	1.00	06/18/2005 14:27	
1,2-Dichloroethane-d4	106.9	73-130	%	1.00	06/20/2005 00:09	
1,2-Dichloroethane-d4	105.3	73-130	%	1.00	06/18/2005 16:18	
Toluene-d8	97.5	81-114	%	1.00	06/18/2005 16:18	
Toluene-d8	97.9	81-114	%	1.00	06/18/2005 14:27	
Toluene-d8	99.0	81-114	%	1.00	06/20/2005 00:09	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2005-06-0199 - 2
Sampled:	06/07/2005 10:10	Extracted:	6/18/2005 14:51 6/18/2005 16:43
Matrix:	Water	QC Batch#:	2005/06/18-1A.64 2005/06/18-1A.66
Analysis Flag: L2, pH: <2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	94	25	ug/L	5.00	06/18/2005 14:51	
Methyl tert-butyl ether (MTBE)	570	2.5	ug/L	5.00	06/18/2005 16:43	
Di-isopropyl Ether (DIPE)	ND	2.5	ug/L	5.00	06/18/2005 16:43	
Ethyl tert-butyl ether (ETBE)	ND	2.5	ug/L	5.00	06/18/2005 16:43	
tert-Amyl methyl ether (TAME)	ND	2.5	ug/L	5.00	06/18/2005 16:43	
1,2-DCA	ND	2.5	ug/L	5.00	06/18/2005 16:43	
EDB	ND	2.5	ug/L	5.00	06/18/2005 16:43	
Ethanol	ND	250	ug/L	5.00	06/18/2005 14:51	
Surrogate(s)						
1,2-Dichloroethane-d4	99.4	73-130	%	5.00	06/18/2005 14:51	
1,2-Dichloroethane-d4	105.0	73-130	%	5.00	06/18/2005 16:43	
Toluene-d8	99.6	81-114	%	5.00	06/18/2005 14:51	
Toluene-d8	98.9	81-114	%	5.00	06/18/2005 16:43	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/06/18-1A.64
MB: 2005/06/18-1A.64-044		Date Extracted: 06/18/2005 06:44

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/18/2005 06:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/18/2005 06:44	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	06/18/2005 06:44	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/18/2005 06:44	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/18/2005 06:44	
1,2-DCA	ND	0.5	ug/L	06/18/2005 06:44	
EDB	ND	0.5	ug/L	06/18/2005 06:44	
Ethanol	ND	50	ug/L	06/18/2005 06:44	
Surrogates(s)					
1,2-Dichloroethane-d4	94.2	73-130	%	06/18/2005 06:44	
Toluene-d8	99.6	81-114	%	06/18/2005 06:44	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/06/18-1A.66
MB: 2005/06/18-1A.66-054		Date Extracted: 06/18/2005 07:54

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/18/2005 07:54	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/18/2005 07:54	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	06/18/2005 07:54	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/18/2005 07:54	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/18/2005 07:54	
1,2-DCA	ND	0.5	ug/L	06/18/2005 07:54	
EDB	ND	0.5	ug/L	06/18/2005 07:54	
Ethanol	ND	50	ug/L	06/18/2005 07:54	
Surrogates(s)					
1,2-Dichloroethane-d4	101.8	73-130	%	06/18/2005 07:54	
Toluene-d8	98.2	81-114	%	06/18/2005 07:54	

Gas/BTEX Fuel Oxygenates by 8260B

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Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/06/19-2A.66
MB: 2005/06/19-2A.66-025		Date Extracted: 06/19/2005 20:25

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/19/2005 20:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/19/2005 20:25	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	06/19/2005 20:25	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/19/2005 20:25	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/19/2005 20:25	
1,2-DCA	ND	0.5	ug/L	06/19/2005 20:25	
EDB	ND	0.5	ug/L	06/19/2005 20:25	
Ethanol	ND	50	ug/L	06/19/2005 20:25	
Surrogates(s)					
1,2-Dichloroethane-d4	105.0	73-130	%	06/19/2005 20:25	
Toluene-d8	98.4	81-114	%	06/19/2005 20:25	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/18-1A.64			
LCS 2005/06/18-1A.64-020			Extracted: 06/18/2005			Analyzed: 06/18/2005 06:20			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.6		25	98.4			65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	443		500	88.6			73-130			
Toluene-d8	501		500	100.2			81-114			

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/18-1A.66			
LCS	2005/06/18-1A.66-029		Extracted: 06/18/2005			Analyzed: 06/18/2005 07:29			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.8		25	87.2			65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	471		500	94.2			73-130			
Toluene-d8	490		500	98.0			81-114			

Severn Trent Laboratories, Inc.

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06/25/2005 13:13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/19-2A.66			
LCS	2005/06/19-2A.66-059		Extracted: 06/19/2005			Analyzed: 06/19/2005 20:50			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.4		25	101.6			65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	434		500	86.8			73-130			
Toluene-d8	494		500	98.8			81-114			

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Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/06/18-1A.64	
MS/MSD		Lab ID:	2005-06-0196 - 001
MS: 2005/06/18-1A.64-038	Extracted: 06/18/2005	Analyzed:	06/18/2005 07:38
		Dilution:	1.00
MSD: 2005/06/18-1A.64-002	Extracted: 06/18/2005	Analyzed:	06/18/2005 08:02
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	22.6	19.2	ND	25	90.4	76.8	16.3	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	466	449		500	93.2	89.8		73-130			
Toluene-d8	501	607		500	100.2	121.4		81-114			S7

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Project: 41050001FA20

Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/06/18-1A.66
MS/MSD		Lab ID:	2005-06-0198 - 002
MS:	2005/06/18-1A.66-015	Extracted:	06/18/2005
		Analyzed:	06/18/2005 09:15
		Dilution:	1.00
MSD:	2005/06/18-1A.66-040	Extracted:	06/18/2005
		Analyzed:	06/18/2005 09:40
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	18.9	18.8	ND	25	75.6	75.2	0.5	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	499	490		500	99.8	98.0		73-130			
Toluene-d8	504	506		500	100.8	101.2		81-114			

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Conoco Phillips # 5105

Received: 06/07/2005 18:30

Site: 1950 Guerneville Rd, Santa Rosa

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/06/19-2A.66	
MS/MSD		Lab ID:	2005-06-0234 - 001
MS: 2005/06/19-2A.66-005	Extracted: 06/19/2005	Analyzed:	06/19/2005 22:05
		Dilution:	1.00
MSD: 2005/06/19-2A.66-030	Extracted: 06/19/2005	Analyzed:	06/19/2005 22:30
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	25.9	24.6	ND	25	103.6	98.4	5.1	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	504	509		500	100.8	101.8		73-130			
Toluene-d8	511	505		500	102.2	101.0		81-114			

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Site: 1950 Guerneville Rd, Santa Rosa

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

S7

Surrogate recoveries higher than acceptance limits.

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.